

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A PCI bus interface circuit for the voltage supply of a [[PCT]] PCI plug-in card that can be connected to a PCI bus, ~~having~~ the PCI bus interface circuit comprising:

a first input for connection to a main voltage supply line of the PCI bus;

a second input for connection to an auxiliary voltage supply line of the PCI bus;

an output for outputting a supply voltage to the PCI plug-in card;

a first switching device for switching a main supply voltage that is present at the first input to the output if no auxiliary supply voltage V_{aux} is present at the second input;

a second switching device for switching an auxiliary supply voltage V_{aux} that is present at the second input to the output if no main supply voltage V_{cc} is present at the first input; and having

a third switching device, which, given the simultaneous presence of a main supply voltage V_{cc} at the first input and an auxiliary supply voltage V_{aux} at the second input, drives the second switching device for switching the auxiliary supply voltage V_{aux} through to the output.

2. (Previously Presented) The interface circuit as claimed in claim 1, wherein the switching devices are semiconductor switches.

3. (Previously Presented) The interface circuit as claimed in claim 1, wherein the switching devices are transistors each having a control terminal.

4. (Previously Presented) The interface circuit as claimed in claim 1, wherein the switching devices are transistors, the third switching device being constructed complementarily with respect to the first and second switching devices.

5. (Previously Presented) The interface circuit as claimed in claim 3, wherein the control terminal of the first transistor is connected to the second input and the control terminal of the second transistor is connected to the first input.

6. (Previously Presented) The interface circuit as claimed in claim 3, wherein the control terminal of the third transistor is connected to the second input, the third

transistor, when an auxiliary supply voltage is applied to the second input, turning on and connecting the control terminal of the second transistor to a specific voltage potential, with the results that the auxiliary supply voltage is switched through to the output.

7. (Previously Presented) The interface circuit as claimed in claim 1, wherein respective current limiting resistors are connected upstream of the control terminals of the first and second transistors.

8. (Previously Presented) The interface circuit as claimed in claim 1, wherein the switching point of the third switching device is adjustable by means of a voltage divider.

9. (Previously Presented) The interface circuit as claimed in claim 1, wherein provision is made of a detection line, connected to the second input, for outputting the auxiliary supply voltage to a voltage detection device within the circuit situated on the plug-in card.

10. (Previously Presented) The interface circuit as claimed in claim 1, wherein the switching devices have a small voltage drop in the turned-on state.

11. (Previously Presented) The interface circuit as claimed in claim 10, wherein the switching devices have a voltage drop of less than 0.1 volt in the turned-on state.

12. (Previously Presented) The interface circuit as claimed in claim 1, wherein the main supply voltage and the secondary supply voltage are in each case 3.1 volts to 3.5 volts.